



# UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE  
United States Patent and Trademark Office  
Address: COMMISSIONER FOR PATENTS  
P.O. Box 1450  
Alexandria, Virginia 22313-1450  
[www.uspto.gov](http://www.uspto.gov)

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/562,255	12/21/2005	Michael Andrew Yuratich	MRKS/0141	3249
36735	7590	11/01/2007	EXAMINER	
PATTERSON & SHERIDAN, L.L.P. 3040 POST OAK BOULEVARD, SUITE 1500 HOUSTON, TX 77056			WRIGHT, GIOVANNA COLLINS	
		ART UNIT	PAPER NUMBER	
		3672		
		MAIL DATE	DELIVERY MODE	
		11/01/2007	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

<b>Office Action Summary</b>	<b>Application No.</b>	<b>Applicant(s)</b>
	10/562,255	YURATICH, MICHAEL ANDREW
	<b>Examiner</b>	<b>Art Unit</b>
	Giovanna C. Wright	3672

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --  
**Period for Reply**

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

#### Status

- 1) Responsive to communication(s) filed on 12 April 2007.
- 2a) This action is FINAL.                    2b) This action is non-final.
- 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

#### Disposition of Claims

- 4) Claim(s) 1-15 and 17-32 is/are pending in the application.
- 4a) Of the above claim(s) 10-15 and 17-32 is/are withdrawn from consideration.
- 5) Claim(s) \_\_\_\_\_ is/are allowed.
- 6) Claim(s) 1-9 is/are rejected.
- 7) Claim(s) \_\_\_\_\_ is/are objected to.
- 8) Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

#### Application Papers

- 9) The specification is objected to by the Examiner.
- 10) The drawing(s) filed on 12 April 2007 is/are: a) accepted or b) objected to by the Examiner.  
 Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
 Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

#### Priority under 35 U.S.C. § 119

- 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
  - a) All    b) Some \* c) None of:
    1. Certified copies of the priority documents have been received.
    2. Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
    3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

#### Attachment(s)

- 1) Notice of References Cited (PTO-892)
- 2) Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) Information Disclosure Statement(s) (PTO/SB/08)  
 Paper No(s)/Mail Date 6/25/07, 4/30/07, 12/21/05.
- 4) Interview Summary (PTO-413)  
 Paper No(s)/Mail Date. \_\_\_\_\_.
- 5) Notice of Informal Patent Application
- 6) Other: \_\_\_\_\_.

**DETAILED ACTION**

***Election/Restrictions***

1. Restriction is required under 35 U.S.C. 121 and 372.

This application contains the following inventions or groups of inventions which are not so linked as to form a single general inventive concept under PCT Rule 13.1.

In accordance with 37 CFR 1.499, applicant is required, in reply to this action, to elect a single invention to which the claims must be restricted.

Group I, claim(s) 1-9, drawn to method of pumping wellbore liquid.

Group II, claim(s) 10-15, drawn to electrical submersible pump.

Group III, claim(s) 17-25 and 30-32, drawn to motor having rotor and stator.

Group IV, claim(s) 26-29, drawn to permanent magnet motor with carrier sleeve and retention sleeve.

2. The inventions listed as Groups I-IV do not relate to a single general inventive concept under PCT Rule 13.1 because, under PCT Rule 13.2, they lack the same or corresponding special technical features for the following reasons: The method claims of Group I do not require the permanent magnet motor to have a retention sleeve or carrier sleeve. The pump of Group II does not require a permanent magnet motor having a carrier sleeve. The motor of Group III does not require a permanent magnet motor.

3. During a telephone conversation with Jason Huang on 10/26/07 a provisional election was made without traverse to prosecute the invention of Group I, claims 1-9.

Affirmation of this election must be made by applicant in replying to this Office action.

Claims 10-15 and 17-32 are withdrawn from further consideration by the examiner, 37 CFR 1.142(b), as being drawn to a non-elected invention.

***Claim Objections***

4. Claim 6 is objected to because of the following informalities: In claim 6, one of the periods after the six should be omitted. Appropriate correction is required.

***Claim Rejections - 35 USC § 112***

5. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

6. Claims 7-9 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

7. A broad range or limitation together with a narrow range or limitation that falls within the broad range or limitation (in the same claim) is considered indefinite, since the resulting claim does not clearly set forth the metes and bounds of the patent protection desired. See MPEP § 2173.05(c). Note the explanation given by the Board of Patent Appeals and Interferences in *Ex parte Wu*, 10 USPQ2d 2031, 2033 (Bd. Pat. App. & Inter. 1989), as to where broad language is followed by "such as" and then narrow language. The Board stated that this can render a claim indefinite by raising a question or doubt as to whether the feature introduced by such language is (a) merely exemplary of the remainder of the claim, and therefore not required, or (b) a required feature of the claims. Note also, for example, the decisions of *Ex parte Steigewald*, 131 USPQ 74 (Bd. App. 1961); *Ex parte Hall*, 83 USPQ 38 (Bd. App. 1948); and *Ex parte*

Art Unit: 3672

*Hasche*, 86 USPQ 481 (Bd. App. 1949). Claim 7 recites the broad recitation "more than 5000 rpm", and the claim also recites "preferably more than 6000 rpm" which is the narrower statement of the range/limitation. Claim 8 recites the broad recitation "at 7000 –7500 rpm", and the claim also recites "preferably at approximate 7200" which is the narrower statement of the range/limitation.

In claim 9, it is unclear what is meant by the phrase "for pumping wellbore liquid in a multi-lateral drilling environment". It appears the applicant is trying to claim the using the in a multilateral environment. However, the claim does not positively recite the step of pumping the wellbore liquids in a multilateral drilling environment .

### ***Claim Rejections - 35 USC § 103***

8. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

9. Claims 1-9 are rejected under 35 U.S.C. 103(a) as being unpatentable over Buchanan et al. 20020066568 in view of Eno 5923111.

Referring to claims 1-4 and 7-8, Buchanan discloses a method of pumping wellbore liquid comprising installing an electrical submersible centrifugal pump ( see fig. 1, at 10) in a wellbore having a AC synchronous permanent magnet motor ( 90,

Art Unit: 3672

paragraph 0054). Buchanan does no discloses operating the pump at 7000-7500 rpm. Eno teaches that permanent magnet motors can operation efficiently at higher rpms which allows smaller pump to be manufactured to be installed in a well ( col. 1, lines 25-35). As it would be advantageous to save money on material by manufacturing a smaller pump, it would be obvious to one of ordinary skill in the art at the time of the invention to modify the method disclosed by Buchanan to operate the pump at 7000 – 7500 rpm.

Referring to claim 5, Buchanan discloses recovering the fluid at the surface ( see fig. 1, at arrow pointing to the left).

Referring to claim 6. Buchanan discloses transporting the liquid from a first location ( see arrows at 14) to a second subterranean location ( see arrow at 34).

Referring to claim 9. Buchanan discloses the pump is operative to draw wellbore liquid from a plurality of later wellbore in to a central pump ( fig. 9b, paragraph 0048).

### ***Conclusion***

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Giovanna C. Wright whose telephone number is 571-272-7027. The examiner can normally be reached on 7-4:30 M-F.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David J. Bagnell can be reached on 571-272-6999. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.



Giovanna Collins Wright  
Patent Examiner  
Technology Center 3670